



NATURAL

Natural

INPL Utility

Version 3.1.5 for Mainframes

Version 5.1.1 for Windows - Draft

Version 4.1.2 for UNIX and OpenVMS

 **SOFTWARE AG**



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This document applies to Natural Version 5.1.1 for Windows, Natural Version 4.1.2 for UNIX and OpenVMS, Natural Version 3.1.5 for Mainframes and to all subsequent releases. Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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Table of Contents

INPL Utility - Overview	1
INPL Utility - Overview	1
Introduction to the INPL Utility	2
Introduction to the INPL Utility	2
Purpose	2
Restrictions	2
Special Cases	2
Invoking the INPL Utility	3
Options Available	5
INPL Report	6
Load Library Only	7
Load Library Only	7
Load DDMs Only	8
Load DDMs Only	8
Load Error Messages Only	9
Load Error Messages Only	9
Load All Objects	10
Load All Objects	10
Scan INPL File	11
Scan INPL File	11
Natural Security Recover	12
Natural Security Recover	12
Reset Environment	12
Remove Owners	12

INPL Utility - Overview

The INPL utility documentation comprises the following sections:

- Introduction to the INPL Utility
- Load Library Only
- Load DDMs Only
- Load Error Messages Only
- Load All Objects
(Load Library, DDMs and Error Messages)
- Scan INPL File
- Natural Security Recover

Introduction to the INPL Utility

The following topics are covered below:

- Purpose
 - Restrictions
 - Special Cases
 - Invoking the INPL Utility
 - Options Available
 - INPL Report
-

Purpose

The INPL utility is used to load or scan Natural modules or DDMs from Software AG datasets (for example Natural INPL tapes) from Work File 1.

In addition, it provides a Natural Security Recover function that enables you to force an initialization of the Natural Security environment.

When executed, the INPL utility will delete buffer pool entries of any cataloged object loaded to the Natural system file in the buffer pool used by the Natural session of the INPL utility.

If an error occurs during INPL execution, an error message will be displayed and INPL will terminate with Condition Code 40.

In a mainframe-computer environment, INPL can be run in batch mode.

Restrictions

Only datasets which are marked as "SAG system INPL dataset" are processed. To process datasets created with the NATUNLD utility, use the NATLOAD utility.

Special Cases

In a mainframe-computer environment:

In any of the following cases, the INPL command must be specified using the dynamic Natural parameter STACK:

- when an INPL is done on an empty FNAT system file;
- when a new system maintenance upgrade INPL is done;
- when INPL is done in a Natural Security environment.

In a Natural Security environment:

When an INPL is done in a Natural Security environment, the INPL command can be specified using the dynamic Natural profile parameter STACK.

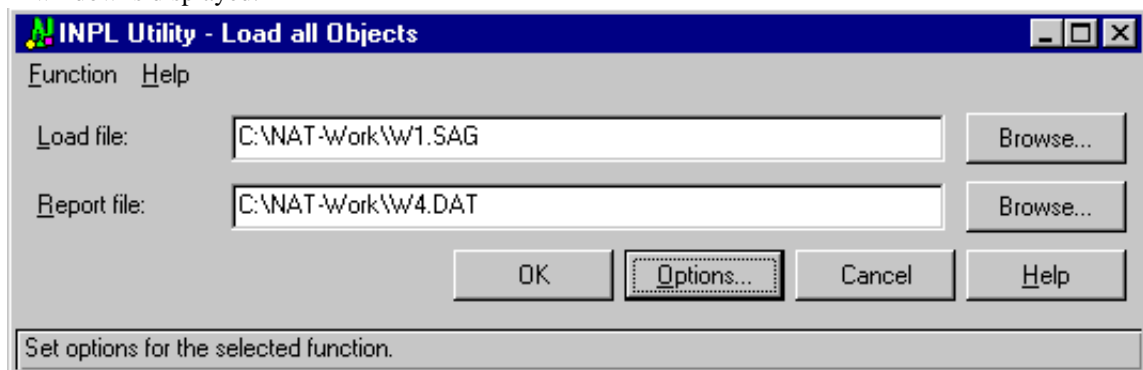
Invoking the INPL Utility

This paragraph describes how to invoke the INPL utility

- in a graphical user interface (GUI) environment and
- in a character-based user interface (CUI) environment.

▶ To invoke the INPL utility in a GUI environment

1. Enter system command INPL in the Natural command line and confirm your entry.
A window is displayed.



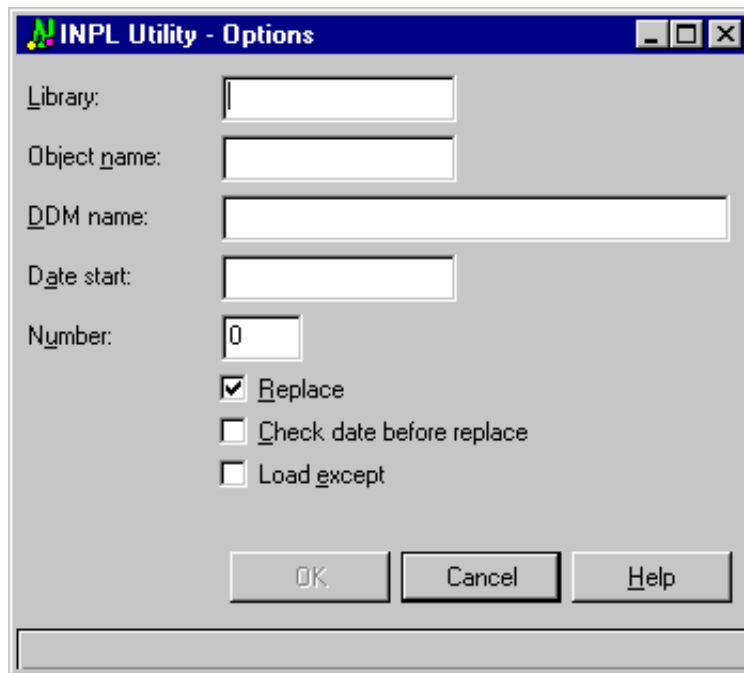
2. Select the file you want to load and select the file to which the report is to be written. Choose OK to confirm your entry.

From the Function menu, the following functions are available:

- Load Library Only
- Load DDMs Only
- Error Messages Only
- Load All Objects
- Scan INPL File
- Natural Security Recover

For details on these functions, use the hyperlinks, or refer to the corresponding sections.

3. Choose the Option button and enter the parameters required to be valid during execution of this function.



For details, refer to Options Available.

► **To invoke the INPL utility in a character-based user interface (CUI) environment**

1. Enter system command INPL in the Natural command line and confirm your entry.
The main menu is displayed.

```

12:11:18          ***** NATURAL INPL UTILITY *****          1999-10-11
User: XYZ                               Library: SYSTEM

Code   Function

      L   Load Library Only
      D   Load DDMs Only
      E   Load Error Messages Only
      B   Load Library, DDMs and Error Messages
      S   Scan INPL File
      R   NATURAL SECURITY Recover
      ?   Help
      .   Exit

Code ..... B
Replace ..... Y (Y/N/O)      Load Except . N (Y/N)
DDM Name ....
Library .....
Object Name .                Date ..... (YYYY-MM-DD)
Check Date .. N (Y/N)        Number ..... 0

```

Note:

In a UNIX environment, the screen contains the fields Load File and Report File in addition.
Enter the name of the file you want to load and select the file to which the report is to be written.

2. Select the desired function by entering the appropriate function code in the Code field and specify parameters to be valid during execution of this function. Press **Enter** to confirm your entry. For details, refer to Options Available.

Options Available

When you enter a function, you can also specify parameters to be valid during execution of this function.

Parameter	Meaning
Library	<p>This parameter only applies to the functions Load Library Only, Load DDMs Only, Load Error Messages Only, Load All Objects and Scan INPL File. It indicates the name of the library to be loaded/scanned.</p> <p>If the value ends with an asterisk (*), each library whose name begins with the specified value will be loaded/scanned.</p> <p>The library name is mandatory if Object Name is specified.</p>
Object Name	<p>This parameter only applies to the functions Load Library Only, Load All Objects and Scan INPL File. It indicates the name of the programming object(s) to be loaded/scanned.</p> <p>If the value ends with an asterisk (*), each object whose name begins with the specified value will be loaded/scanned. If the field is left blank, all objects within the library specified under 'Library' will be loaded/scanned.</p>
DDM Name	<p>This parameter only applies to the functions Load DDMs Only, Load All Objects and Scan INPL File. It indicates the name of the DDM(s) to be loaded/scanned.</p> <p>If the value entered ends with an asterisk (*), each DDM whose name begins with the specified value will be loaded.</p> <p>If only an asterisk is entered or this field is left blank, all DDMs will be loaded/scanned.</p>
Date (start)	<p>This parameter only applies to functions Load Library Only, Load DDMs Only, Load All Objects and Scan INPL File. It enables you to restrict loading/scanning to those programming objects which were saved/cataloged on or after a given date.</p> <p>The date is entered in the format YYYY-MM-DD.</p>
Number	<p>This parameter enables you to restrict loading/scanning to a certain number of programming objects and/or DDMs. All objects which meet the selection criteria are counted.</p> <p>If the number of objects processed has reached the value of Number, processing is terminated with a corresponding message.</p>
Replace	<p>Specifies whether objects/DDMs/error messages to be loaded are to be replaced if they already exist on the system file.</p> <p>With option Y, the existing objects/DDMs/error messages are replaced. With option N, the existing objects/DDMs/error messages are not replaced. Default for Replace is Y.</p> <p>See also the Check Date parameter if only older objects are to be replaced.</p> <p>In the function Natural Security Recover, you can enter the option O in this field to reset the owner information of selected objects.</p>
Check Date	<p>This parameter only applies to the functions Load Library Only, Load DDMs Only and Load All Objects. It indicates whether programming objects or DDMs are to be replaced depending on their timestamp.</p> <p>If set to Y, only older objects are replaced (that is, objects which were saved or cataloged before the objects of the same names which are to be loaded).</p> <p>If set to N, all objects are replaced.</p> <p>This parameter has no effect if Replace is set to N.</p> <p>The default for Check Date is N.</p>

Parameter	Meaning
Load Except	<p>If Y is entered, the specified DDM name, Library and Object name selection are not loaded. This means, that all objects <i>except</i> the specified objects are to be loaded/scanned. Default for Load Except is N.</p> <p>Examples with Load Except = Y:</p> <p>Code = L Library = ABC: All libraries except the library ABC are loaded.</p> <p>Code = D DDM Name = XY*: All DDMs with a prefix other than XY are loaded.</p> <p>Code = B Library = AB* DDM Name = CD*: All libraries with a prefix other than AB and all DDMs with a prefix other than CD are loaded.</p>

INPL Report

When the selected INPL function is complete, a corresponding INPL Report is output.

In a character-based environment: The report is displayed on screen.

In a GUI environment: The report is displayed in a list box (online mode).

Under UNIX: The report is written to the file you specified in the Report file field. If no work file was specified, the report is displayed on screen.

Load Library Only

This function of the INPL utility enables you to load Natural objects modules and source programs into specified libraries in the Natural system file (FNAT/FUSER).

To load libraries

1. In GUI environments: Choose the function from the Function menu.
In CUI environments: Enter the function code **L** in the Code field.
2. You can specify parameters to be valid during execution of this function:
 - Replace (Y/N)
 - Load Except (Y/N)
 - Library
 - Object Name
 - Date (start)(YYYY-MM-DD)
 - Check Date (Y/N)
 - Number

For detailed information on these parameters, use the hyperlinks, or refer to Options Available in the section Introduction to the INPL Utility.

3. Confirm your entry.

The specified Natural objects modules and source programs are loaded into the specified libraries in the Natural system file.

When the function is complete, a corresponding INPL Report is output.

Load DDMs Only

This function of the INPL utility enables you to load DDMs into the Predict system file (FDIC) in mainframe-computer environments or into the libraries in non-mainframe environments.

To load DDMs

1. In GUI environments: Choose the function from the Function menu.
In CUI environments: Enter the function code **D** in the Code field.
2. You can specify parameters to be valid during execution of this function:
 - Replace (Y/N)
 - Load Except (Y/N)
 - DDM Name
 - Number

For detailed information on these parameters, use the hyperlinks, or refer to Options Available in the section Introduction to the INPL Utility.

3. Confirm your entry.

The specified DDMs are loaded into the Predict system file (FDIC) in mainframe-computer environments or into the libraries in non-mainframe environments. When the INPL function is complete, a corresponding INPL Report is output.

Load Error Messages Only

This function of the INPL utility enables you to load error messages into specified libraries in the Natural system file (FNAT/FUSER).

To load error messages

1. In GUI environments: Choose the function from the Function menu.
In CUI environments: Enter the function code **E** in the Code field.
2. You can specify parameters to be valid during execution of this function:
 - Replace (Y/N)
 - Library
 - Object Name

For detailed information on these parameters, use the hyperlinks, or refer to Options Available in the section Introduction to the INPL Utility.

3. Confirm your entry.

The error messages are loaded into specified libraries in the Natural system file (FNAT/FUSER). When the INPL function is complete, a corresponding INPL Report is output.

Load All Objects

(Load Library, DDMs and Error Messages)

This function of the INPL utility enables you to load Natural object modules, source programs and error messages into specified libraries in the Natural system file (FNAT/FUSER), and loads DDMs into the Predict system file (FDIC) in mainframe-computer environments or into the libraries in non-mainframe environments.

To load libraries, DDMs and error messages

1. In GUI environments: Choose Load All Objects from the Function menu.
In CUI environments: Enter the function code **B** in the Code field.
2. You can specify parameters to be valid during execution of this function:
 - Replace (Y/N)
 - Load Except (Y/N)
 - DDM Name
 - Library
 - Object Name
 - Date (YYYY-MM-DD)
 - Check Date (Y/N)
 - Number

For detailed information on these parameters, use the hyperlinks, or refer to Options Available in the section Introduction to the INPL Utility.

3. Confirm your entry.

The specified items are loaded into the Natural system and/or into the Predict system file (FDIC) in mainframe-computer environments or into the libraries in non-mainframe environments. When the INPL function is complete, a corresponding INPL Report is output.

Scan INPL File

This function of the INPL utility enables you to scan the contents of the dataset assigned to Work File 1.

To scan an INPL File

1. In GUI environments: Choose the function from the Function menu.
In CUI environments: Enter the function code **S** in the Code field.
2. You can specify parameters to be valid during execution of this function:
 - Load Except (Y/N)
 - DDM Name
 - Library
 - Object Name
 - Date (YYYY-MM-DD)
 - Check Date (Y/N)
 - Number

For detailed information on these parameters, use the hyperlinks, or refer to Options Available in the section Introduction to the INPL Utility.

3. Confirm your entry.

When the INPL function is complete, a corresponding INPL Report is output.

Natural Security Recover

This function of the INPL utility enables you to force an initialization of the Natural Security environment. You can

- Reset the Environment or
 - Remove Owners
-

Reset Environment



Execution of this function will reset the user profile DBA and the library profile SYSSEC as well as the link between these two objects as they were after the initial installation; all other links to the library SYSSEC will be cancelled. Other Natural Security profiles and links will not be modified.

Contact Software AG Support for further information.



To reset the environment

- In GUI environments: Choose the function Natural Security Recover Object from the Function menu.
- In CUI environments: Enter the function code **R** in the Code field.

Remove Owners



To remove owners

- In GUI environments: Choose the function Natural Security Recover Object from the Function menu. Use the option **O** - Recover Natural Security object to reset the owner information of selected objects.
- In CUI environments: Enter the function code **R** in the Code field and code **O** in the Replace field to reset the owner information of selected objects.